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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/814,630	04/01/2004	Lars Ivar Samuelson	077424-0103	7515
	7590 05/13/200 LARDNER LLP	EXAMINER		
SUITE 500	——- T NIV <i>I</i>	REAMES, MATTHEW L		
3000 K STREET NW WASHINGTON, DC 20007			ART UNIT	PAPER NUMBER
			2891	
			MAIL DATE	DELIVERY MODE
			05/13/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/814,630	SAMUELSON ET AL.			
		Examiner	Art Unit			
		MATTHEW L. REAMES	2891			
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover sheet with th	e correspondence address			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPERIOD FOR REPERIOR IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CFR of SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statutely preceived by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATI 1.136(a). In no event, however, may a reply be d will apply and will expire SIX (6) MONTHS for the, cause the application to become ABANDO	ON. The timely filed Tom the mailing date of this communication. The property of the communication of the communication.			
Status						
1) 又	Responsive to communication(s) filed on <u>28</u>	January 2008				
•		is action is non-final.				
3)□	, 					
ت (۵	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠	1)⊠ Claim(s) <u>36,37,39-41 and 44-48</u> is/are pending in the application.					
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
	☐ Claim(s) 41,42,45,47 and 48 is/are allowed.					
•	i)⊠ Claim(s) <u>47,42,43,47 and 46</u> is/are rejected.					
	Claim(s) is/are objected to.					
•	· · · ——	/or algation requirement				
8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers					
9)	The specification is objected to by the Exami	ner.				
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the corre	ection is required if the drawing(s) is	objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice (3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summ Paper No(s)/Mai 5) Notice of Informa 6) Other:				

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DETAILED ACTION

Specification

1. The amendment filed 1/28/2008 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: Applicant has never previously taught using the device as a light emitting diode.

Applicant is required to cancel the new matter in the reply to this Office Action.

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 36, 37, 39, 40, and 47 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Applicant has never taught the use of such a device as a light emitting diode.

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Allowable Subject Matter

3. Claims 41,42,45,47 and 48 are allowed.

4. The following is an examiner's statement of reasons for allowance: Prior art fails to teach an upstanding nanowhisker doped of a first conductivity with a bulk semiconductor of an opposite conductivity in contact with the nanowhisker such that a pn junction is formed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

- 5. Applicant's arguments filed 1/28/2008 have been fully considered but they are not persuasive. In regards to the new matter rejection applicant has never explicitly disclosed a light emitter. The disclosure of 10/613,071 is referenced in regards to the process of making nanowhiskers and not using the nanowhiskers of application 10/814630 is specific embodiments therein. Since the disclosure never explicitly taught a light emitter the rejection is maintained.
- 5. Applicant's arguments, see pages 13 and 14, filed 1/28/2008, with respect to the modification Yazawa have been fully considered and are persuasive. The 103(a) of 10/29/2007 has been withdrawn.

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Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MATTHEW L. REAMES whose telephone number is (571)272-2408. The examiner can normally be reached on M-Th 6:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, B. William Baumeister can be reached on (571)272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MLR/

/BRADLEY W BAUMEISTER/

Supervisory Patent Examiner, Art Unit 2891